

SVETLANA TECHNICAL DATA

KT88

High Performance Audio Beam Power Tetrode

The Svetlana™ KT88 is a glass envelope beam power tetrode. It is intended for audio frequency power amplification service. High plate dissipation rating, close manufacturing specification tolerances and thorough processing provides improved reliability and superior sonic performance.

The Svetlana KT88 is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any KT88, KT90, KT99 or 6550.

The new KT88 features greatly enhanced sonic performance: Increased peak cathode emission from new cathode materials; Stable operation from extended processing and aging; Gold-plated grid; New tri-plate anode; Single-piece beam forming electrode; Precise grid/screen alignment; Improved vacuum processing; comprehensive static and audio amplifier testing before and after aging.

Characteristics

Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current		1.6		A
Cathode:		Oxide-coated, unipotential		
Cathode-to-heater potential, max.			-250*/250**	V
Direct interelectrode capacitances***				
Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater			16.0	pF
Plate to cathode and grid no.3, grid no.2, base sleeve and heater			12.0	pF
Grid no.1 to plate			1.2	pF

Mechanical

Operating Position	Any
Base	Large wafer octal 8-pin with metal sleeve
Nominal dimensions:	
Height	117 mm (4.61 in.)
Seated height	103.5 mm (4.08 in.)
Diameter	51 mm (2.0 in.)
Cooling	Convection cooled
Envelope Temperature (max)	250˚C
Approximate net weight	90 g (3.0 oz.)

*Max with heater negative to cathode **Max with heater positive to cathode

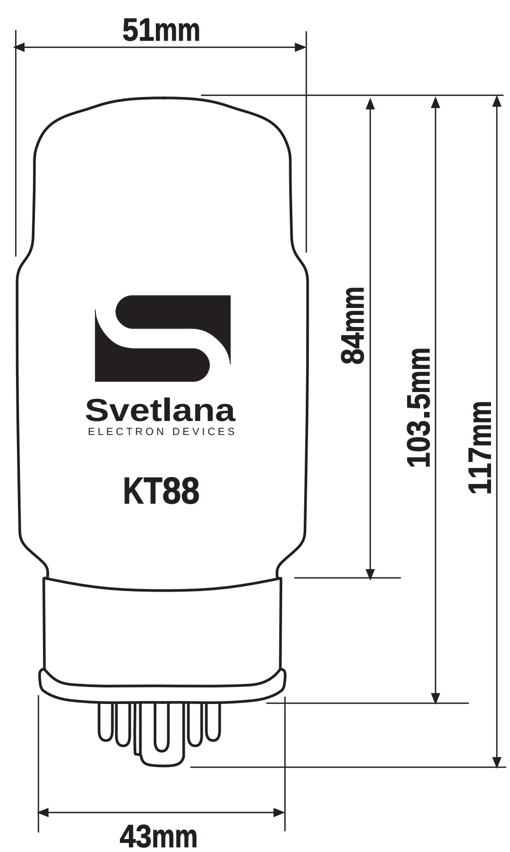
***Without external shielding

AF Power Amplifier

Maximum ratings

DC plate voltage	800	V
Grid no.2 DC (screen) voltage	600	V
Grid no.1 (control) voltage	-300	V
DC cathode current	230	mA
Plate dissipation	42	W
Grid no.2 (screen) dissipation	8	W

Svetlana Outline drawing



Svetlana ELECTRON DEVICES

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ELECTRON DEVICES

Typical Operation Class A_1 (single tube)

DC plate voltage	*400*	*V*
Grid no.2 DC (screen) voltage	*225*	*V*
Grid no.1 DC (control) voltage	*-16.5*	*V*
Peak AF grid no.1 (control) voltage	*16.5*	*V*
Zero-signal plate current	*87*	*mA*
Max signal plate current	*105*	*mA*
Zero signal grid no.2 (screen) current	*4*	*mAdc*
Max signal grid no.2 (screen) current	*18*	*mA*
Transconductance	*11.5*	*mA/Volt*
Signal output	*19*	*W*

